Final Syllabus

Mr Aronna CR(64_L)

Algoreithm

- → Introduction to Dynamic Programming Approach
- → Coin change DP
- ⇒ 0/1 knapsack
- → Graph Representation
- ⇒ Brieddth First Search
- → Depth First Search basic and DFS Applications: Cycle Finding
- ⇒ DFS Application: Topological Sort & Strongly Connected Components
- ⇒ Minimum Spanning Trice (MST):

 Basics, prims, and Kruskal's Algorithm
- ⇒ Single Sowrce Shortest path (SSSP):

 Basic, Dij Kstras Algorithm and Bellman
 Ford Algorithm.
- → All Pairs Shordest Path:
 Floyd Worshall algorithm.

Bangladesh Studies

- Language Movement and Discreiminations towards
 East Pakistan.
- Six Point Movement and Libertation Work of Bangladesh.
- Economy of Bangladesh.
- In dustrial Sector of Bongladesh.
- Unbanization & Rural Development of Bangladesh.
- Environment Degradation & Climate Change.

Electronic Device & Circuit

Mathematical Example

Chapter 9:

Example: 9.1 - 9.7, 9.10, 9.19 - 9.22, 9.25 - 9.26

1 Chapter: 11:

Example: 11.1-11.10

Example: 13.1 - 13.8

Example: 14.3, 14.6

Example: 19.1-19.5, 19.30-19.31

Chapter: 5

Example: 5.3, 5.5-5.7 (Alexander & Sadiku)

Engineering Mathematics

- 1.=> Linear ODE with first degree and higher order with variable coefficients.
- 2. Daplace Transformation

 Deplace Transformation

 Deplace Transformation

 Deplace Transformation

 Deplace Transformation

 Deplace Transformation
- 3. Fourier Transformation:
- 4. Fourier Series.

Discrete Mathematics

- 4 Graph
- 1 Graph Terminologies and Isomorphism.
- The Relation and Graph Representation.
- 4 Graph Bipartite

- Spanning Tree & Minimum Spanning

 Hree.
- 1 Mathematical Induction.
- Pules of Inferences.

And of Living

- Chapter: 7 Defining Digital Media, and
 Technology Literacy
- Chapter: 8 Innovation and Social Entreprienewiship in the IT Industry.
- Chapter: 9 -> Etiquetle, Work Ethics and Integrity in the Digital Age
- D Chapter: 11 → Adaptation of new technology.
- Chapter: 13 → Industrial Ethics and Daily Values.